

## **Washington State Daily Situation Weather Brief**

Sunday, July 25, 2021

1000 hrs.

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*Images courtesy National Weather Service and NOAA Global Systems Laboratory*

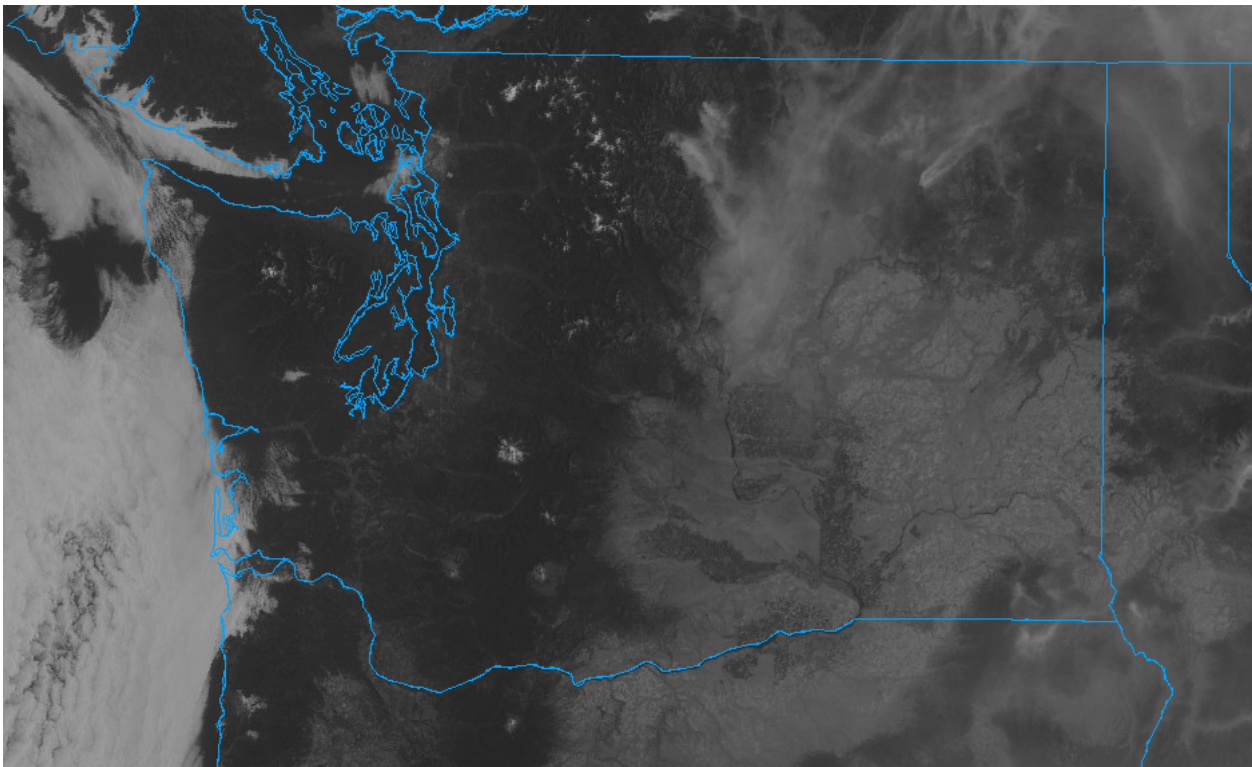
### **Today/Tonight:**

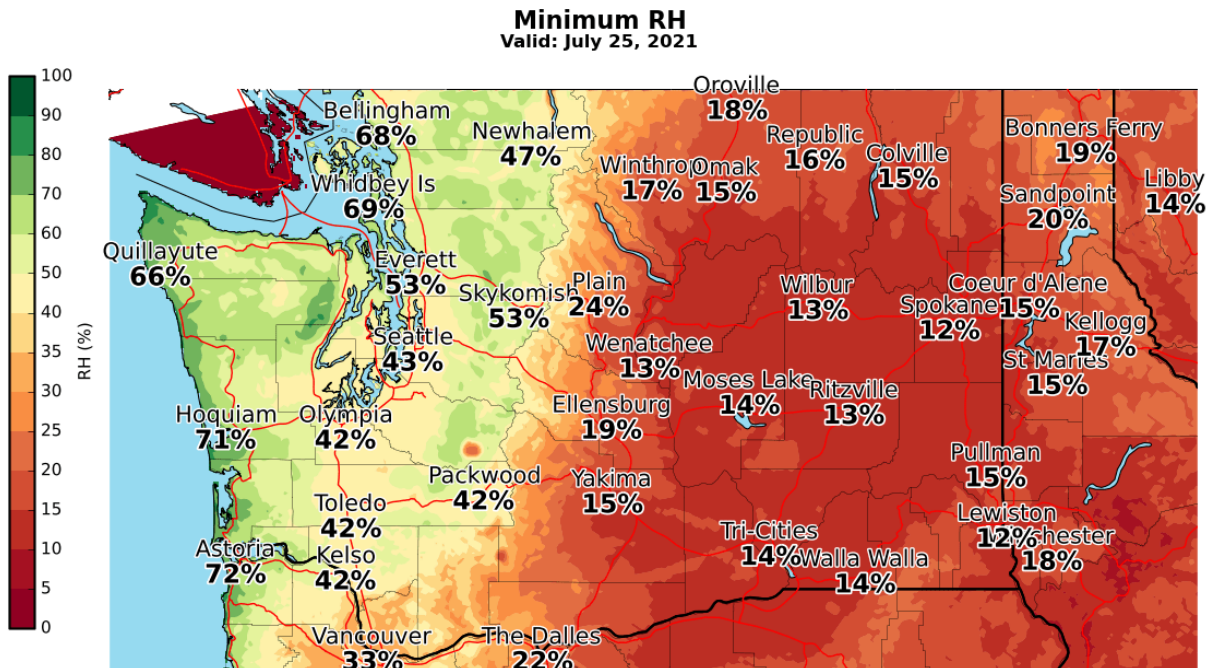
Conditions are still largely very dry for the east side of the state, and the forecast overall has undergone few changes overnight. Minimum RH on the west side of the Cascades is running between 40-80%, while on the east side the range is 10-20%. In the Kittitas valley, where Red Flag Warnings will go into effect this afternoon, the minimum RH values are only 15-19%. Coupled with breezy to windy conditions, 25-35 mph, extreme fire behavior has the potential to be observed in this area. Generally weak instability on the East side of the state with mid level Haines at 5-6 and mixing heights 5-10k feet.

Winds generally ease overnight on the west side of the Cascades, and will also decrease in speed overnight on the eastern side, but to a lesser extent as residual breeziness will be retained. Good to excellent humidity recovery expected for the west side while generally poor recovery conditions will set up on the east side tonight.

Please refer to local NWS warnings and forecasts for specific details.

Satellite image from 0915 hrs. today





### Outlook:

Westerly flow aloft and weak ridging over the region today through Monday is expected and will cause temperatures to warm. With highs in the upper 90s expected for the eastern portion of the state this weekend. However, areas experiencing dense smoke could see lower high temperatures and lower mixing heights due to a decrease in daytime heating.

A broad upper low then becomes established in the Gulf of Alaska to start bringing southwesterly flow aloft back to the PacNW. This could cause smoke from California fires to move into Washington state next week. The confidence in exact smoke density and trajectory is low at this time, but for now appears that advected smoke from California fires may impact portions of southern and southeastern Washington based on the forecast position of the low in the Gulf of Alaska.

Moist monsoonal air moving in from the south is expected to increase cloudiness throughout the state starting later Monday. While we are currently not expecting any thunderstorms, we can not completely rule out the chance of them on the East side quite yet. Some elevated instability has started to appear in the high resolution model guidance, but in the absence of meaningful moisture, it may not materialize as thunderstorms. Right now, confidence is higher in the increase in cloud cover as mentioned before. No beneficial precipitation is expected for the next 7 days.

## High Temperatures Valid: July 25, 2021

